

Name: _____

Unit : Polynomials & Factoring



Date: _____ Bell: _____

Homework 6: Factoring Difference of Squares

Directions: Factor each polynomial, if possible. Check your answer using FOIL.

1. $x^2 - 36$	2. $a^2b^2 - 100$	3. $16y^2 - 25$
4. $y^2 + 49$	5. $9a^2 - 121$	6. $196 - x^2$
7. $4y^2 - 81$	8. $36c^2 - d^2$	9. $16m^2 - p^2$
10. $m^2 - 64n^2$	11. $1 - 4a^2$	12. $9v^4 - 100$

Directions: Factor each polynomial. Look for a GCF first.

13. $3p^2 - 75$	14. $5x^2 - 80$	15. $7n^2 - 7$
16. $16x^3 - 100x$	17. $3x^2 - 3y^2$	18. $8a^2 - 18b^2$
19. $4r^2 - 144$	20. $81m^4 - m^2$	21. $3k^4 - 48k^2$
22. $2x^3 - 200x$	23. $a^3 - a$	24. $32x^2 - 18y^2$